

Assignment:8

Aim: Write php code to demonstrate sorting functions using inbuilt array functions[Sort(), rsort(),asort(),arsort(),ksort(),krsort(),natsort()]

Code:

```
<html>
<head></head>
<body>
    <?php
        //php code for sorting functions using inbuilt array functions[ Sort(),
rsort(),asort(),arsort(),ksort(),krsort(),natsort()]
        $colors=array("Red","Blue","Orange","Yellow","Black","White");

        echo 'Color-array is:<br />';
foreach($colors as $color){
    echo $color."<br />";
}

        echo 'Size of color-array is:'.sizeof($colors).'<br />';
        //The sizeof() function returns the number of elements in an
array.        echo 'colors-array in ascending order is:<br />';
sort($colors);
        //sort() function sorts an indexed array in ascending order.
        $length=count($colors);
        for($x=0;$x<$length;$x++)
        {
            echo $colors[$x];
            echo "<br>";
        }
        echo 'colors-array in descending order is:<br />';
rsort($colors);
        //rsort() function to sort an indexed array in descending order
        $length=count($colors);
        for($x=0;$x<$length;$x++)
        {
            echo $colors[$x];
            echo "<br>";
        }

        $colors=array("Red"=>"6","Blue"=>"7","Orange"=>"23","Yellow"=>"11","Black"=>"4",
"White"=>"2");
        echo 'Color-array with value is:<br />';
foreach($colors as $color){
```

```

        echo $color."<br />";
    }

    echo 'colors-array ascending order, according to the value:<br/>';
asort($colors);
    //color-array in ascending order, according to the
value    foreach($colors as $x => $x_value) {
echo "Key=" . $x . ", Value=" . $x_value;        echo
"<br>";
    }
    echo 'colors-array arrays in descending order, according to the value:<br/>';
arsort($colors);
    //color-array in arrays in descending order, according to the
value    foreach($colors as $x => $x_value) {        echo
"Key=" . $x . ", Value=" . $x_value;        echo "<br>";
    }
    echo 'colors-array ascending order, according to the key:<br/>';
ksort($colors);
    //color-array in ascending order, according to the
key    foreach($colors as $x => $x_value) {
echo "Key=" . $x . ", Value=" . $x_value;        echo
"<br>";
    }

    echo 'colors-array arrays in descending order, according to the key:<br/>';
krsort($colors);
    //color-array in arrays in descending order, according to the
key    foreach($colors as $x => $x_value) {        echo
"Key=" . $x . ", Value=" . $x_value;        echo "<br>";
    }

    $color_files = array("color15.txt","color10.txt","color1.txt","color22.txt","color2.txt");

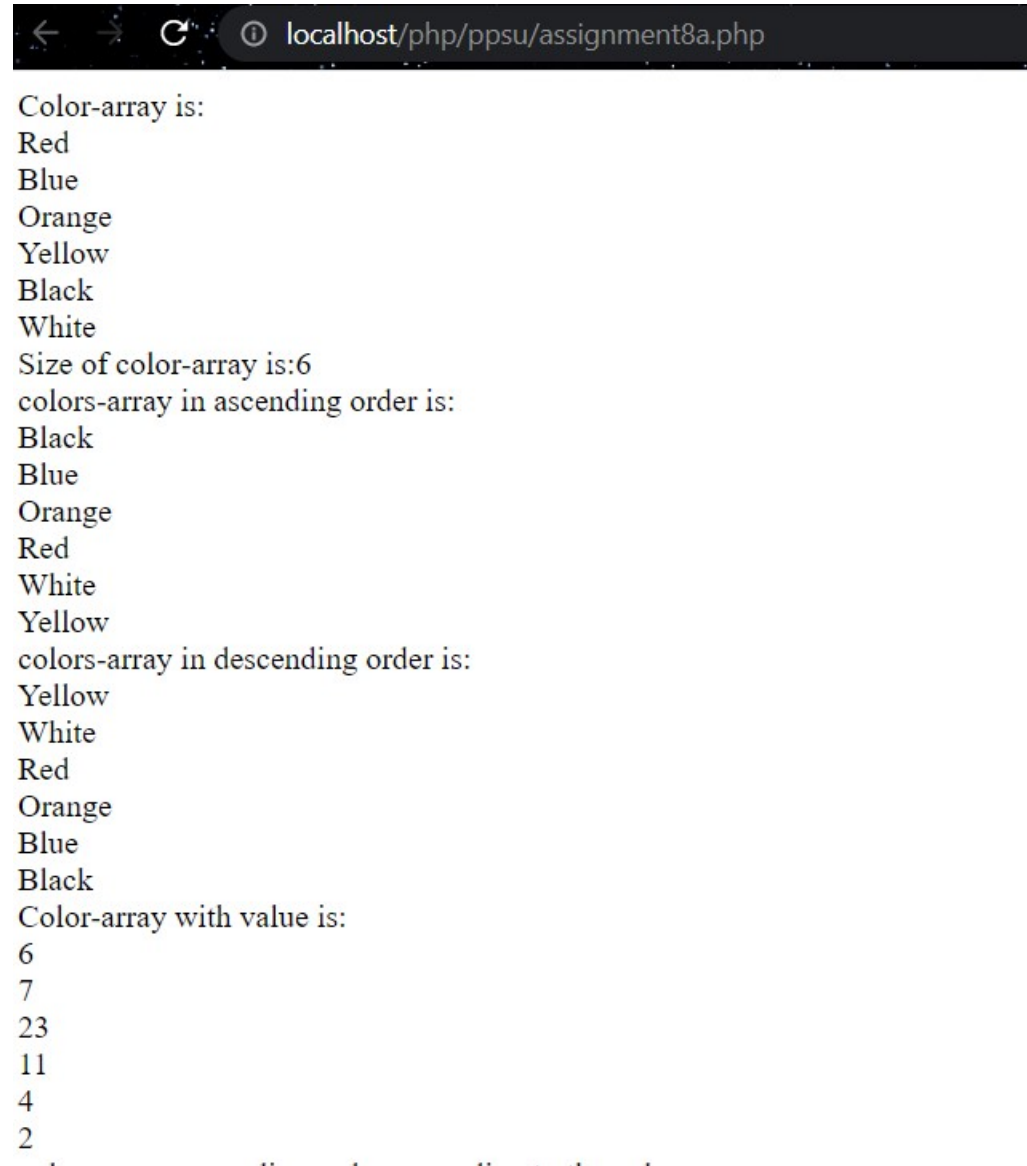
    sort($color_files);
echo "Standard sorting: ";
print_r($color_files);
echo "<br>";

    natsort($color_files);
echo "Natural order: ";
print_r($color_files);    ?>

```

```
</body>  
</html>
```

Output:



```
Color-array is:  
Red  
Blue  
Orange  
Yellow  
Black  
White  
Size of color-array is:6  
colors-array in ascending order is:  
Black  
Blue  
Orange  
Red  
White  
Yellow  
colors-array in descending order is:  
Yellow  
White  
Red  
Orange  
Blue  
Black  
Color-array with value is:  
6  
7  
23  
11  
4  
2
```

```

localhost/php/ppsu/assignment8a.php
Red
Orange
Blue
Black
Color-array with value is:
6
7
23
11
4
2
colors-array ascending order, according to the value:
Key=White, Value=2
Key=Black, Value=4
Key=Red, Value=6
Key=Blue, Value=7
Key=Yellow, Value=11
Key=Orange, Value=23
colors-array arrays in descending order, according to the value:
Key=Orange, Value=23
Key=Yellow, Value=11
Key=Blue, Value=7
Key=Red, Value=6
Key=Black, Value=4
Key=White, Value=2
colors-array ascending order, according to the key:
Key=Black, Value=4
Key=Blue, Value=7
Key=Orange, Value=23
Key=Red, Value=6
Key=White, Value=2
Key=Yellow, Value=11
colors-array arrays in descending order, according to the key:
Key=Yellow, Value=11
Key=White, Value=2
Key=Red, Value=6
Key=Orange, Value=23
Key=Blue, Value=7
Key=Black, Value=4
Standard sorting: Array ( [0] => color1.txt [1] => color10.txt [2] => color15.txt [3] => color2.txt [4] => color22.txt )
Natural order: Array ( [0] => color1.txt [3] => color2.txt [1] => color10.txt [2] => color15.txt [4] => color22.txt )

```

(b)write PHP Script to Create Student Marksheet that display Student Enrollment, Student Name , Subject Name and Marks , Percentage. Also check student grade based on Percentage. Code:

```

</html>
<html>
<head></head>
<body>
<form action="Studentdata.php" method="post">
  <table border="1" align="center" width="60%">
    <tr>
      <td> Name </td>
      <td> <input type="text" placeholder="Enter your name" name="name" /> </td>
    </tr>
    <tr>
      <td> Enrollment_id: </td>
      <td> <input type="text" placeholder="Enter your Enrollment Id" name="enrollid" /> </td>
    </tr>
    <tr>
      <td> First Subject Name: </td>

```

```

        <td> <input type="text" placeholder="Enter your subject name" name="sub1"
/></td>
    </tr>
    <tr>
        <td> Second Subject Name: </td>
        <td> <input type="text" placeholder="Enter your subject name" name="sub2"
/></td>
    </tr>
    <tr>
        <td> Third Subject Name: </td>
        <td> <input type="text" placeholder="Enter your subject name" name="sub3"
/></td>
    </tr>
    <tr>
        <td> First Subject mark: </td>
        <td> <input type="number" placeholder="Enter your subject mark" name="mark1"
/></td>
    </tr>
    <tr>
        <td> second Subject mark: </td>
        <td> <input type="number" placeholder="Enter your subject mark" name="mark2"
/></td>
    </tr>
    <tr>
        <td> Third Subject mark: </td>
        <td> <input type="number" placeholder="Enter your subject mark" name="mark3"
/></td>
    </tr>
    <tr>
        <td colspan="2" align="center"> <input type="submit" value="Submit" /> </td>
    </tr>
</table>

</form>

</body>

```

Studentdata.php:

```

<?php

    echo "Your Name is ".$_POST['name']."<br>";    echo "Your Enrollment_id is
".$_POST['enrollid']."<br>";    echo "You first subject is ".$_POST['sub1']."<br>";    echo
"You second subject is ".$_POST['sub2']."<br>";

    echo "You third subject is ".$_POST['sub3']."<br>";    echo
"You first subject mark is ".$_POST['mark1']."<br>";    echo
"You second subject mark is ".$_POST['mark2']."<br>";

```

```
echo "You third subject mark is ".$_POST['mark3']."<br>";

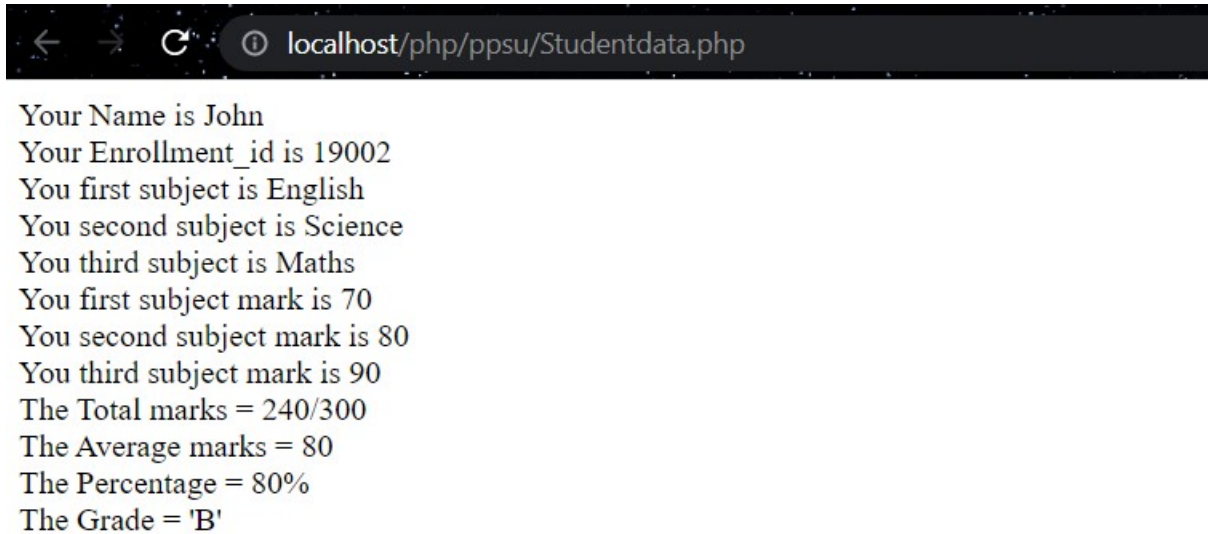
$total = $_POST['mark1'] + $_POST['mark2'] + $_POST['mark3'];
$average = $total / 3.0;
$percentage = ($total / 300.0) * 100;

if ($average >= 90)
$grade = "A";
else if ($average >= 80 && $average < 90)
    $grade = "B";
else if ($average >= 70 && $average < 80)
    $grade = "C";
else if ($average >= 60 && $average < 70)
    $grade = "D";
else
    $grade = "E";

// It will print the final output
echo "The Total marks = " . $total . "/300 <br>";
echo "The Average marks = " . $average . "<br>";
echo "The Percentage = " . $percentage . "%<br>";
echo "The Grade = " . $grade . "<br>";
```

localhost/php/ppsu/Assignmentlib.php

Name	John
Enrollment_id:	19002
First Subject Name:	English
Second Subject Name:	Science
Third Subject Name:	Maths
First Subject mark:	70
second Subject mark:	80
Third Subject mark:	90
<input type="submit" value="Submit"/>	



```
localhost/php/ppsu/Studentdata.php

Your Name is John
Your Enrollment_id is 19002
You first subject is English
You second subject is Science
You third subject is Maths
You first subject mark is 70
You second subject mark is 80
You third subject mark is 90
The Total marks = 240/300
The Average marks = 80
The Percentage = 80%
The Grade = 'B'
```

(c) write php script to display what age group people participated in Event. Code:

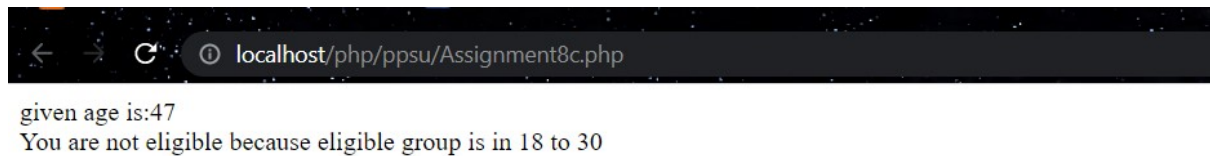
```
<html>
  <head></head>
  <body>
    <!-- write php script to display what age group people participated in Event. -->

    <?php

      $age = 47;

      echo "given age is:". $age. "<br>";
      if($age >=18 && $age <=30){
        echo "You are eligible";
      } else {
        echo "You are not eligible because eligible group is in 18 to 30";
      }
    ?>
  </body>
</html>
```

Output:



(d) Write php script to create calculator using switch statement.

Code:

```
<!DOCTYPE html>

<head>
  <title>Simple Calculator Program in PHP - Tutorials Class</title>
</head>

<body>
<!DOCTYPE html>

<head>
  <title>Simple Calculator Program in PHP - Tutorials Class</title>
</head>

<body>

  <h1>PHP - Simple Calculator Program</h1>
  <form action="calculator.php" method="post" id="quiz-form">
    <p>
      <input type="number" name="first_num" required="required" value="<?php echo $first_num; ?>" /> <b>First Number</b>
    </p>
    <p>
      <input type="number" name="second_num" required="required" value="<?php echo $second_num; ?>" /> <b>Second Number</b>
    </p>
    <input type="submit" name="operator" value="Add" />
    <input type="submit" name="operator" value="Subtract" />
    <input type="submit" name="operator" value="Multiply" />
    <input type="submit" name="operator" value="Divide" />    </form>

  </body>
```



```
</html> </body>
</html>
```

Calculator.php:

```
<html>
  <head></head>
  <body>
    <?php
$num1 = $_POST['first_num'];
$num2 = $_POST['second_num'];
$operator = $_POST['operator'];
$result = "";
if (is_numeric($num1) && is_numeric($num2))
{
    switch ($operator) {
        case "Add":
            $result = $num1 + $num2;
        break;
        case "Subtract":
            $result = $num1 - $num2;
        break;
        case "Multiply":
            $result = $num1 *
$num2;
        break;
        case
"Divide":
            $result = $num1 / $num2;
        }
    }
?>
    <p>
        <input type="number" name="result" value="<?php echo $result; ?>"> <b>
Calculator Result of <?php echo $operator ?></b>
    </p>
  </body>
</html>
```

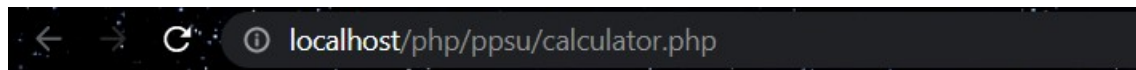
Output:



PHP - Simple Calculator Program

First Number

Second Number



Calculator Result of Multiply